## C-172S (N916CP, N991CP) AIRPLANE QUESTIONNAIRE

Score: Type/Model Aircraft: <u>C-1/28 (N916CP, N991CP)</u>
Complete this open book questionnaire using the <i>Flight Manual/Pilot's Operating Handbook</i> . If a question or part of a question is not applicable, write in NA. The check pilot will review and grade the questionnaire. Minimum passing score is 80%. The completed questionnaire will be filed in the pilot's flight records.
1. Approved fuel grades and colors are: 100 LL (Blue) / 100 (Green)
2. Location/capacity of each fuel tank is: Wings / 28 gal ea. (56 gal total)
3. Total usable fuel under all flight conditions is gallons: 53 gal. (37 when filled to tabs)
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is hours: <b>4.3 hrs.</b>
5. What make and grade oil is used? Winter: <u>15-50W (NCWG Standard)</u> Summer: <u>15-50W (NCWG Standard)</u>
6. Oil capacity is <b>8</b> quarts. Minimum oil quantity for take off is <b>5</b> quarts.
7. Minimum oil pressure is 20 psi. Maximum oil pressure is 115.
8. Maximum oil temperature isdegrees (F or C)F
9. Magnetos are checked at <b>1800</b> RPM. RPM drop should not exceed <b>150</b> RPM on
either magneto or RPM differential between magnetos.
10. Maximum RPM and MP for takeoff are <b>2700</b> and <b>N/A</b> in/Hg.
11. Maximum gross takeoff weight is pounds. Empty weight is pounds.
Useful load is pounds. Maximum landing weight is pounds.
12. Baggage compartment locations/weights are: (1) 95" - 120 lbs (2) 123" - 50 lbs (120 max total)
13. Give the IAS at <b>maximum gross</b> weight for:
a. Va (maneuvering speed). 105 KIAS f. Vmc (minimum control speed – multiengine only). N/A.
b. Vso (stall, landing config, power. off). 40 KIAS g. Best glide speed. 68 KIAS .
c. Vs1 (stall, cruise config, power. off). 48 KIAS .
d. Vy (best rate of climb, sea level). 74 KIAS.
e. Vx (best angle of climb, sea level). 62 KIAS .
14. Give the immediate action/memory items for:
a. Engine failure immediately after takeoff.  AIRSPEED - 70 KIAS (flaps UP)  - 65 KIAS (flaps DOWN)

b. Fire during cranking and engine fails to start.  CRANKING -CONTINUE  THROTTLE - FULL OPEN  MIXTURE - IDLE CUT-OFF  CRANKING - CONTINUE  FUEL SHUTOFF VALVE - OFF (Pull Full Out)  AUXILIARY FUEL PUMP SWITCH - OFF
c. Engine fire in flight.
MIXTURE – IDLE CUT-OFF FUEL SHUTOFF VALVE – PULL OUT (OFF)
AUXILIARY FUEL PUMP SWITCH - OFF
MASTER SWITCH – OFF .
d. Electrical fire in flight.  MASTER SWITCH – OFF  VENTS, CABIN AIR, HEAT - CLOSED  FIRE EXTINGUISHER - ACTIVATE .
15. Normal takeoff flap setting is <u>0-10 deg</u> , short field takeoff setting is <u>10 deg</u> , and soft field takeoff flap setting is <u>10 deg</u> .
16. Maximum demonstrated takeoff/landing crosswind component is knots.
17. Given: PA = 4,000 feet; Temp = 860 F; Runway 27; Wind 3200 at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.
Find: Total takeoff distance to clear a 50-foot obstacle: 2416 ft .
18. Given: PA = 6,000 feet; Temp = 680 F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.
Find: Total landing distance to clear a 50-foot obstacle:
19. Landing runway 22; wind 190o at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? <u>NO</u> .